

Taxonomic Notes on Hawaiian Pteridophytes

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ABSTRACT.—A review of the literature regarding Hawaiian pteridophytes, examination of herbarium specimens, and much field work resulted in the need to publish two new varieties and to make thirteen new combinations.

In preparing a book reviewing the pteridophyte flora of Hawaii, the author examined type specimens, reviewed collections at several herbaria, consulted literature, observed common garden studies, and conducted much field work. Findings from these studies necessitate the publication of thirteen new combinations (*Adenophorus pinnatifidus* var. *rockii*, *Asplenium horridum* var. *glabratum*, *A. kaulfussii* f. *bipinnatum*, *A. kaulfussii* f. *gemmaiparum*, *A. peruvianum* var. *insulare*, *Christella* $\times$ *intermedia*, *Christella waialele*, *Dryopteris crinalis* var. *podosorus*, *D. glabra* var. *alboviridis*, *D. glabra* var. *hobdyana*, *Hypolepis hawaiiensis* var. *mauiensis*, *Microlepia strigosa* var. *mauiensis*, and *Microsorium spectrum* var. *pentadactylum*) and the description of two new varieties (*Dryopteris glabra* var. *flynnii*, and *Polypodium pelucidum* var. *acuminatum*).

Adenophorus pinnatifidus Gaudich. var. ***rockii*** (Copel.) D. D. Palmer, *comb. nov.*

Polypodium rockii Copel. Philipp. J. Sci. 11:173. 1916. *Adenophorus sarmentosus* (Brack.) K. A. Wilson var. *rockii* (Copel.) O. Deg. & I. Deg., Fl. Hawaiiensis, fam. 17a. 1967.

Adenophorus pinnatifidus var. *rockii* is distinguished from var. *pinnatifidus* by its longer, narrower, more linear, acute-tipped segments arising at an oblique angle from the midrib, and often by the presence of more sori on the lobes (var. *pinnatifidus* with 3–4 sori per lobe, and var. *rockii* with 1–7).

Asplenium horridum Kaulf. var. ***glabratum*** (W. J. Rob.) D. D. Palmer, *comb. nov.*

Asplenium glabratum W.J. Rob., Bull. Torrey Bot. Club 40:214. 1913.

Asplenium glabratum is here recognized as a variety. It differs from *A. horridum* var. *horridum* in the degree of scaliness, var. *horridum* being very scaly and var. *glabrum* nearly glabrous. However, one can find a continuum of plants with intermediate degrees of scaliness between the two extremes. Hillebrand first recognized this taxon as *Asplenium horridum* Kaulf. var. β (Fl. Hawaiian Isl. 604. 1888).